

Summary of information for individual segments of the Yellowstone River Physical Features Survey:

All segment lengths shown and are from the information published in the April, 1998 report. For full feature descriptions see the report.

SEGMENT 0 - Mouth of Gardiner River to McConnell access.
19,625 linear feet (lf).

Length of line features in Segment 0

FEATURE	SUM-FEET	SUM-MILES
Left Bank Mass Wasting	741.379	0.140
Left Bank Eroding Bank	1,884.183	0.356
TOTAL:	2,625.563	0.497

Point features in Segment 0 summarized by number of occurrences:

FEATURE	OCCURRENCES
Oafp	1 (Other alterations-flood plain)
Oap	2 (Other alterations-pilings)
Oab	1 (Other alterations-bridge)
Oad	1 (Other alterations-debris pile)

SEGMENT 1 - McConnell access to Corwin Springs.
24,450 lf.

Length of line features in Segment 1:

FEATURE	SUM-FEET	SUM-MILES
Left Bank Mass Wasting	2,122.658	0.402
Right Bank Mass Wasting	585.023	0.110
Right Bank Rip Rap	706.089	0.133
Right Bank Eroding Bank	533.992	0.101
Left Bank Eroding Bank	184.414	0.034
TOTAL:	4,132.177	0.782

Point features in Segment 1 summarized by number of occurrences:

FEATURE	OCCURRENCES
Ip	4 (Irrigation pumps)
Mob	1 (Woody debris deposit)

SEGMENT 2 - Corwin Springs access to Yankee Jim access.
31,005 lf.

Lengths of line features in Segment 2:

FEATURE	SUM-FEET	SUM-MILES
Right Bank Mass Wasting	1,726.022	0.326
Left Bank Eroding Bank	2,638.542	0.499
Left Bank Mass Wasting	2,312.887	0.438
Right Bank Rip Rap	1,213.791	0.229
Right Bank Eroding Bank	1,343.346	0.254
TOTAL:	9,234.590	1.748

Point features in Segment 2 summarized by number of occurrences:

FEATURE	OCCURRENCES
Oab	1 (Other alterations-bridge)
Ip	6 (Irrigation pumps)
Rbrj	2 (Right bank rock jettys)
Rbrb	1 (Right bank rock barb)
Cb	5 (Car bodies)

SEGMENT 3 - Yankee Jim access to Carbella access.
18,700 lf.

Lengths of line features in Segment 3:

FEATURE	SUM-FEET	SUM-MILES
Right Bank Rip Rap	8,453.389	1.601
Left Bank Rip Rap	1,007.691	0.190
TOTAL:	9,461.080	1.791

Point features in Segment 3 summarized by number of occurrences:

FEATURE	OCCURRENCES
Oab	1 (Other alterations-bridge)

SEGMENT 4 - Carbella access to gravel pit access.
36,720 lf.

Lengths of line features in Segment 4:

FEATURE	SUM-FEET	SUM-MILES
Right Bank Eroding Bank	4,393.377	0.832
Left Bank Rip Rap	513.120	0.097
Left Bank Eroding Bank	5,413.816	1.025
(Lbeb/scc*	2,384.787	0.451
TOTAL:	10,320.313	1.95

Stream channel change recorded for portion of segment also mapped as eroding bank. Not duplicated in total length.

Point features in Segment 4 summarized by number of occurrences:

FEATURE	OCCURRENCES
Oab	1 (Other alterations-bridge)
Rbrj	2 (Right bank rock jettys)
Cb	1 (Car body)
Mob	3 (Woody debris deposits)
Emb	1 (Embedded woody debris deposit)

SEGMENT 5 - Gravel pit access to Emigrant access.
68,690 lf.

Lengths of line features in Segment 5:

FEATURE	SUM-FEET	SUM-MILES
Left Bank Eroding Bank	14,512.785	2.748
Right Bank Eroding Bank	13,123.464	2.485
Right Bank Rip Rap	7,630.183	1.445
Left Bank Rip Rap	2,941.144	0.557
Dike	851.961	0.161
Left Bank Mass Wasting	753.187	0.142
Right Bank Mass Wasting	731.831	0.138
TOTAL:	40,544.559	7.678

Point features in Segment 5 summarized by number of occurrences:

FEATURE	OCCURRENCES
Rbrj	14 (Right bank rock jettys)
Oafp	6 (Other alterations to flood plain)
Lbrj	16 (Left bank rock jettys)
Id	1 (Irrigation diversion)

Rbrb	5	(Right bank rock barbs)
Oah	2	(Other alteration-headgates)
Ip	1	(Irrigation pump)
Cb	12	(Car bodies)
Mob	14	(Woody debris deposits)
Emb	8	(Embedded woody debris deposits)

SEGMENT 6 - Emigrant access to Loch Leven access.
61,575 lf.

Length of line features in Segment 6:

FEATURE	SUM-FEET	SUM-MILES
Left Bank Rip Rap	1,940.655	0.367
Left Bank Eroding Bank	9,314.784	1.764
Lbeb/scc	3,024.94	.572
Left Bank Wetland Alteration	573.098	0.108
Right Bank Eroding Bank	8,017.531	1.518
Left Bank Mass Wasting	595.970	0.112
Right Bank Mass Wasting	1,310.160	0.248
TOTAL:	21,752.201	4.119

*Stream channel change occurring in conjunction with eroding left bank.
Not duplicated in total length.

Point features in Segment 6 summarized by number of occurrences:

FEATURE	OCCURRENCES
Ip	6 (Irrigation pumps)
Oab	2 (Other alterations-bridges)
Rbrb	4 (Right bank rock barbs)
Oar	1 (Boat ramp)
Lbrj	1 (Left bank rock jetty)
Mob	6 (Woody debris deposits)
Emb	9 (Embedded woody debris deposits)

SEGMENT 7 - Loch Leven access to Pine Creek bridge.
34,050 lf.

Length of line features in Segment 7:

FEATURE	SUM-FEET	SUM-MILES
Left Bank Mass Wasting	1,660.075	0.314
Right Bank Rip Rap	5,539.805	1.049
Left Bank Eroding Bank	1,787.251	0.338
Right Bank Eroding Bank	153.697	0.029
TOTAL:	9,140.829	1.731

Point features in Segment 7 summarized by number of occurrences:

FEATURE	OCCURRENCE
Rbrb	17 (Right bank rock barbs)
Rbrj	5 (Right bank rock jettys)
Lbrj	5 (Left bank rock jettys)
Ip	3 (Irrigation pumps)
Oab	1 (Other alteration-bridge)
Id	1 (Irrigation diversion)
Emb	2 (Embedded woody debris)

SEGMENT 8 - Pine Creek bridge to Carters Bridge
41,170 lf.

Length of line features in Segment 8:

FEATURE	SUM-FEET	SUM-MILES
Left Bank Eroding Bank	14,669.169	2.778
Lbeb/scc	1,313.35	0.248*
Right Bank Mass Wasting	4,745.330	0.898
Rbbmw/scc	1,083.303	0.205*
Left Bank Mass Wasting	3,257.475	0.616
Lbbmw/scc	1,915.82	0.362*
Right Bank Eroding Bank	11,321.322	2.144
Rbeb/scc	3,353.421	0.616*
Right Bank Rip Rap	7,045.031	1.334
Left Bank Rip Rap	6,287.339	1.190
Lbbr/dike	1,366.191	0.258*
Dike	9,795.978	1.855
Left Bank Stream Channel Change	1,135.940	0.215
TOTAL:	58,257.588	11.033

*Stream channel change recorded for portion of segment also mapped as left bank eroding bank. Not duplicated in total length.

*Stream channel change recorded for portion of segment also mapped as right bank mass wasting. Not duplicated in total length.

*Stream channel change recorded for portion of segment also mapped as left bank mass wasting. Not duplicated in total length.

*Stream channel change recorded for portion of segment also mapped as right bank eroding bank. Not duplicated in total length.

*Dike recorded for portion of segment also mapped as left bank riprap. Not duplicated in total length.

Point features in Segment 8 summarized by occurrences:

FEATURE	OCCURRENCES
Rbrb	22 (Right bank rock barbs)
Lbrb	39 (Left bank rock barbs)
Lbrj	8 (Left bank rock jettys)
Rbrj	13 (Right bank rock jettys)
Oacul	1 (Other alteration-culvert)
Ih	2 (Irrigation headgates)

Oab	1 (Other alteration-bridge)
Mob	12 (Woody debris deposits)
Emb	5 (Embedded woody debris)
Failed brr	1 (Failed bank riprap)

SEGMENT 9 - Carters Bridge to Park Clinic access.
23,460 lf.

Length of line features in Segment 9:

FEATURE	SUM-FEET	SUM-MILES
Left Bank Eroding Bank	1,611.131	0.305
Right Bank Eroding Bank	1,894.544	0.358
Left Bank Rip Rap	8,829.103	1.672
Dike	4,359.071	0.825
Right Bank Rip Rap	1,288.397	0.244
TOTAL:	17,982.248	3.405

Point features in Segment 9 summarized by occurrences:

FEATURE	OCCURRENCE
Lbrb	6 (Left bank rock barbs)
Ip	1 (Irrigation pump)
Lbrj	16 (Left bank rock jettys)
Oab	2 (Other alterations-bridges)
Cb	2 (Car bodies)
Mob	3 (Woody debris deposits)
Emb	3 (Embedded woody debris)

Segment 10 - Park Clinic to Mayor's Landing access.
11,024 lf.

Length of line features in Segment 10:

FEATURE	SUM-FEET	SUM-MILES
Right Bank Rip Rap	794.784	0.150
Right Bank Eroding Bank	1,517.643	0.287
Rbeb/scc	1,012.698	0.191*
Dike	7,853.485	1.487
Left Bank Rip Rap	7,363.634	1.394
Left Bank Eroding Bank	114.656	0.021
TOTAL:	17,644.204	3.341

*Stream channel change occurring in conjunction with eroding right bank.
Not duplicated in total length.

Point features in Segment 10 summarized by occurrence:

FEATURE	OCCURRENCE
Lbrb	7 (Left bank rock barbs)
Oab	1 (Other alteration-bridge)
Mob	3 (Woody debris deposits)

SEGMENT 11 - Mayor's landing access to Shields River bridge access
38,016 lf.

Length of line features in Segment 11:

FEATURE	SUM-FEET	SUM-MILES
Left Bank Eroding Bank	8,073.418	1.529
Left Bank Rip Rap	4,972.100	0.941
Lbrrr/dike	1,161.949	0.220
Right Bank Rip Rap	1,668.421	0.315
Left Bank Mass Wasting	1,244.257	0.235
Dike	1,205.592	0.228
Dike/rbrrr	985.841	0.186*
Right Bank Mass Wasting	642.326	0.121
Right Bank Eroding Bank	410.291	0.077
TOTAL:	18,216.408	3.450

*Dike occurring in conjunction with left bank riprap. Not duplicated in total length.

*Right bank riprap occurring in conjunction with dike. Not duplicated in total length.

Point features in Segment 11 summarized by occurrence:

FEATURE	OCCURRENCE
Rbrb	10 (Right bank rock barbs)
Oar	1 (Other alterations-boat ramp)
Ih	2 (Irrigation headgates)
Cb	2 (Car bodies)
Oab	4 (Other alterations-bridges)
Ip	2 (Irrigation pumps)
Id	1 (Irrigation diversion)
Mob	24 (Woody debris deposits)

SEGMENT 12 - Shields River bridge access to private pig farm access.
48,656 lf.

Length of line features in Segment 12:

FEATURE	SUM-FEET	SUM-MILES
Left Bank Rip Rap	5,627.750	1.065
Right Bank Eroding Bank	17,480.202	3.310
Left Bank Eroding Bank	13,778.254	2.609
Right Bank Rip Rap	2,303.034	0.436
Dike	2,844.952	0.538
Right Bank Mass Wasting	2,747.429	0.520
TOTAL:	44,781.623	8.481

Point features in Segment 12 summarized by occurrence:

FEATURE	OCCURRENCE
Lbrb	4 (Left bank rock barbs)
Rbrj	4 (Right bank rock jettys)
Rbrb	2 (Right bank rock barbs)
Lbrj	19 (Left bank rock jettys)
Id	1 (Irrigation diversion)
Ih	1 (Irrigation headgate)
Brr failed	1 (Failed bank riprap)
Mob	21 (Woody debris deposits)

SEGMENT 13 - Private pig farm access to Springdale access.
54,468 lf.

Length of lines features in Segment 13:

FEATURE	SUM-FEET	SUM-MILES
Right Bank Rip Rap*	13,574.438	2.570
Right Bank Eroding Bank	7,926.596	1.501
Left Bank Mass Wasting	2,322.269	0.439
Left Bank Eroding Bank	3,308.393	0.626
Left Bank Rip Rap	1,835.549	0.347
TOTAL:	28,967.247	5.486

*Includes a portion designated as 'Old Rbrrr' with the following length:

FEATURE	SUM-FEET	SUM-MILES
Rbrrr/Old	664.679788	0.125886

Point features in Segment 13 summarized by number of occurrences:

FEATURE	OCCURRENCES
Oas	2 (Other alterations-siphons)
Ir	1 (Irrigation returnflow)
Ih	2 (Irrigation headgates)
Id	1 (Irrigation diversion)
Ip	2 (Irrigation pumps)
Cb	2 (Car bodies)
Oar	1 (Other alterations-boat ramp)
Oap	2 (Other alterations-pilings)

Oab	1 (Other alterations-bridge)
Mob	25 (Woody debris deposits)
Emb	12 (Embedded woody debris)